

REPRESENTATIVE AIRPORT PROJECTS

REDDING MUNICIPAL AIRPORT

Geotechnical Engineering

Materials Testing & Special Inspection

CGI provided geotechnical engineering, materials testing, and special inspection services for three separate projects at the Redding Municipal Airport: 1) Extension of Taxiways A & B; 2) Redding Runway Expansion; and 3) tarmac, new hangar, and jet center improvements. For each project, CGI performed extensive exploration, laboratory testing, and analyses to provide geotechnical recommendations that met the City's standards and were approved by the FAA.

KLAMATH FALLS INTERNATIONAL AIRPORT

Geotechnical Engineering

Materials Testing & Special Inspection

CGI was retained to provide geotechnical engineering and materials testing services for three separate projects at Klamath Falls International Airport. The projects involved improvement of drainage, runway widening and lengthening, and taxiway development. CGI performed exploration using a number of methods, performed an extensive laboratory testing program, and provided recommendation that met or exceeded FAA requirements. Of particular concern were compressible clays, liquefaction, and the depth of frost penetration. CGI provided materials testing and special inspection services for construction of the projects.

BENTON AIRPORT

Geotechnical Engineering

This project involves the extension of the City of Redding's Benton Airport runway so that it meets current minimum FAA standards. Because of improvement conflicts, the runway can be extended only to the south, placing the extension over the existing Benton Landfill. Because of grade differences, up to 25 feet of engineered fill will be placed on the landfill to construct the project, resulting in the potential for extreme differential settlement issues. CGI was retained to evaluate alternatives to reduce differential settlement magnitudes and to evaluate slope stability of the proposed improvements. Alternatives identified to reduce settlement included the use of geofoam within the engineered fill, the construction of a geosynthetic composite raft within the embankment, and the removal of the solid waste beneath the extension footprint.

ADDITIONAL AIRPORT PROJECTS

CGI has provided geotechnical engineering and/or materials testing and special inspection services on numerous additional airport projects, including:

- Oregon Air National Guard – 173rd Fighter Wing, Kingsley Field (Klamath County, Oregon)
- Susanville Airport (Lassen County)
- Fall River Mills Airport (Shasta County)
- Little River Airport (Mendocino County)
- Round Valley Airport (Mendocino County)
- Lampson Field (Lake County)
- Quincy Airport (Plumas County)